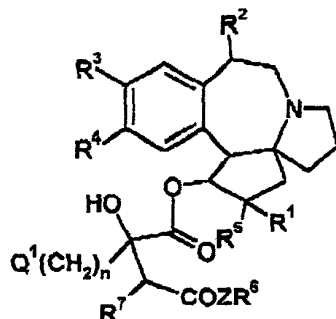


THERAPEUTICAL METHOD INVOLVING SUBCUTANEOUS ADMINISTRATION OF DRUGS CONTAINING CEPHALOTAXINE DERIVATIVES

ABSTRACT

A new method of therapy using the subcutaneous mode of administration of formulations based upon harringtonines including their salts and tautomeric forms having the formula



where :

R^1 is H, OH, OMe, O-(C₁-C₃₀)-alkyl, O-aryl-(C₁-C₃₀)-alkyl, O-(C₂-C₃₀)-alkenyl, O-(C₃-C₃₀)-cycloalkyl or null and

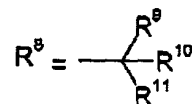
R^2 is H or OH, or R^1 , R^2 form together -O-,

$R^3 = R^4 =$ OMe or R^3 and R^4 form together -OCH₂O-,

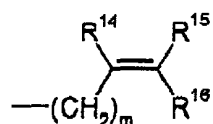
n is 0 to 8,

R^5 is H, OH, OMe, O-(C₁-C₃₀)-alkyl, O-aryl-(C₁-C₃₀)-alkyl, O-(C₂-C₃₀)-alkenyl, O-(C₃-C₃₀)-cycloalkyl or O-aryl,

Z = O, S, or NH, and



or Z- R^6 is $NR^{12}R^{13}$, R^{12} and R^{13} representing respectively R^9 and R^{10} ,



where R¹⁴, R¹⁵, R¹⁶ are independently H, halogen, C₁-C₃₀ alkyl, C₃-C₃₀ cycloalkyl, aryl, aryl-(C₁-C₃₀)-alkyl, C₂-C₃₀ alkenyl or C₂-C₃₀ alkynyl, C₁-C₃₀ trihalogenoalkyl, m is 0 to 4, each of these groups including or not heteroatom(s)

or their combination with another antitumor agent or a mixture of antitumor agents useful for the treatment of a disease in humans or animals, particularly cancers, leukemias, lymphomas, parasite diseases or chemotherapeutic resistance to other agents, in using a formulation specifically adapted for subcutaneous administration.